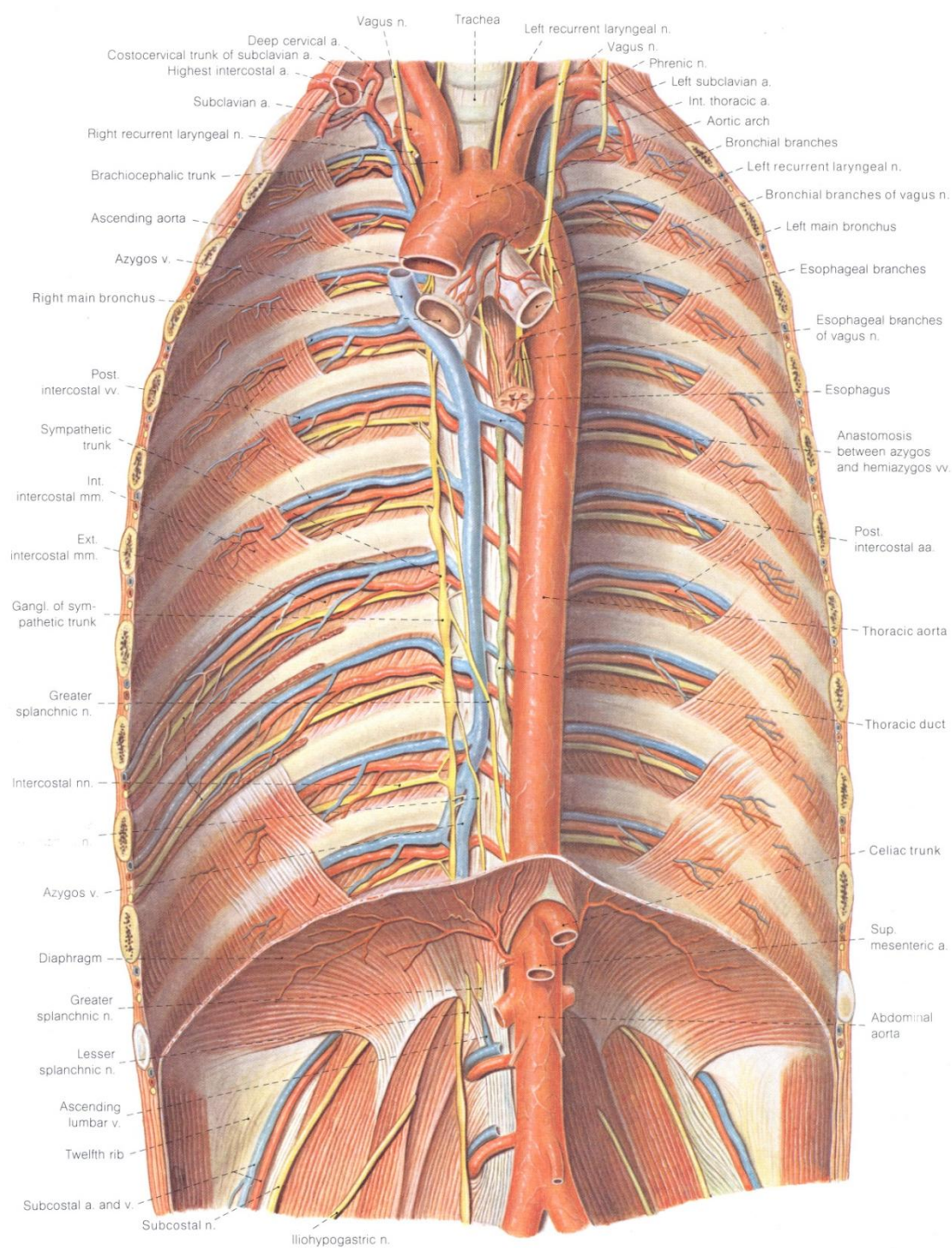
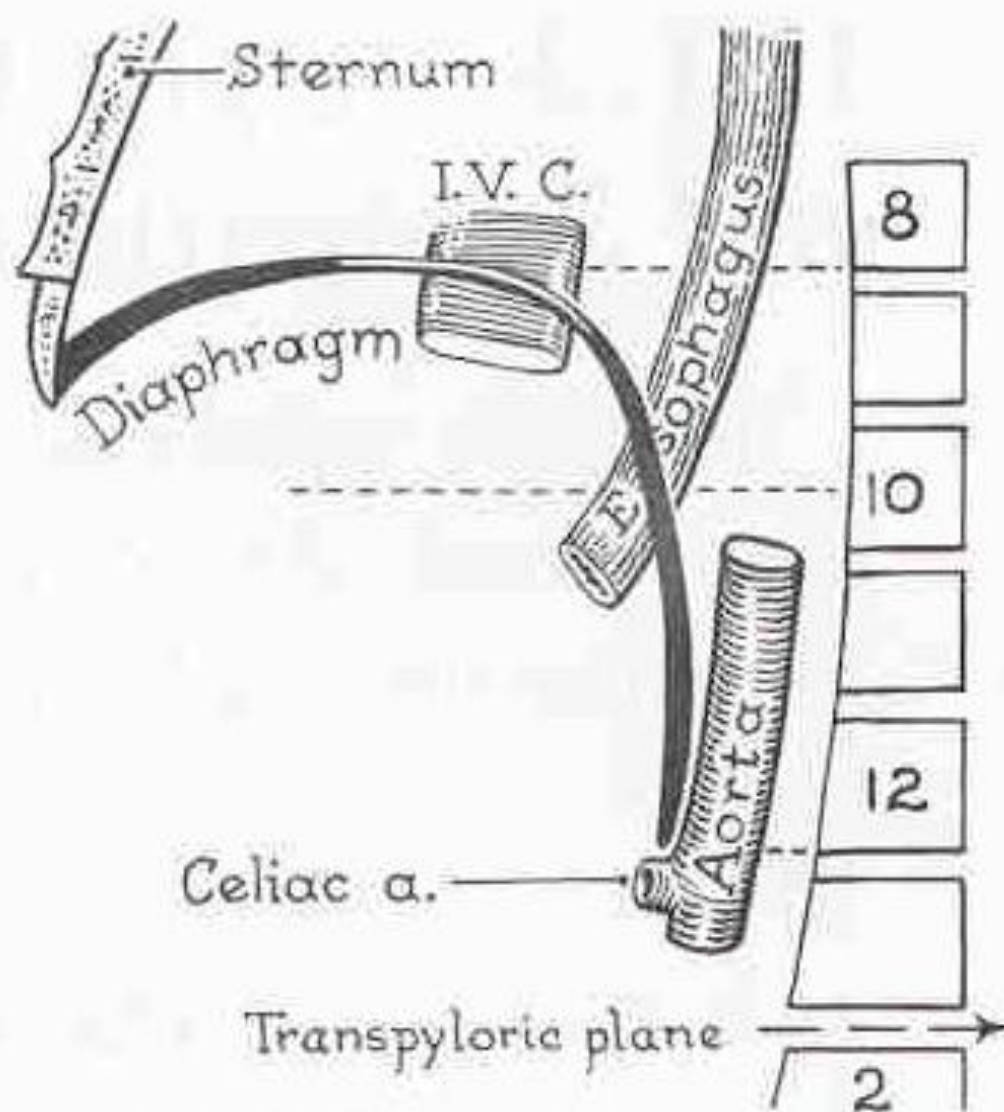
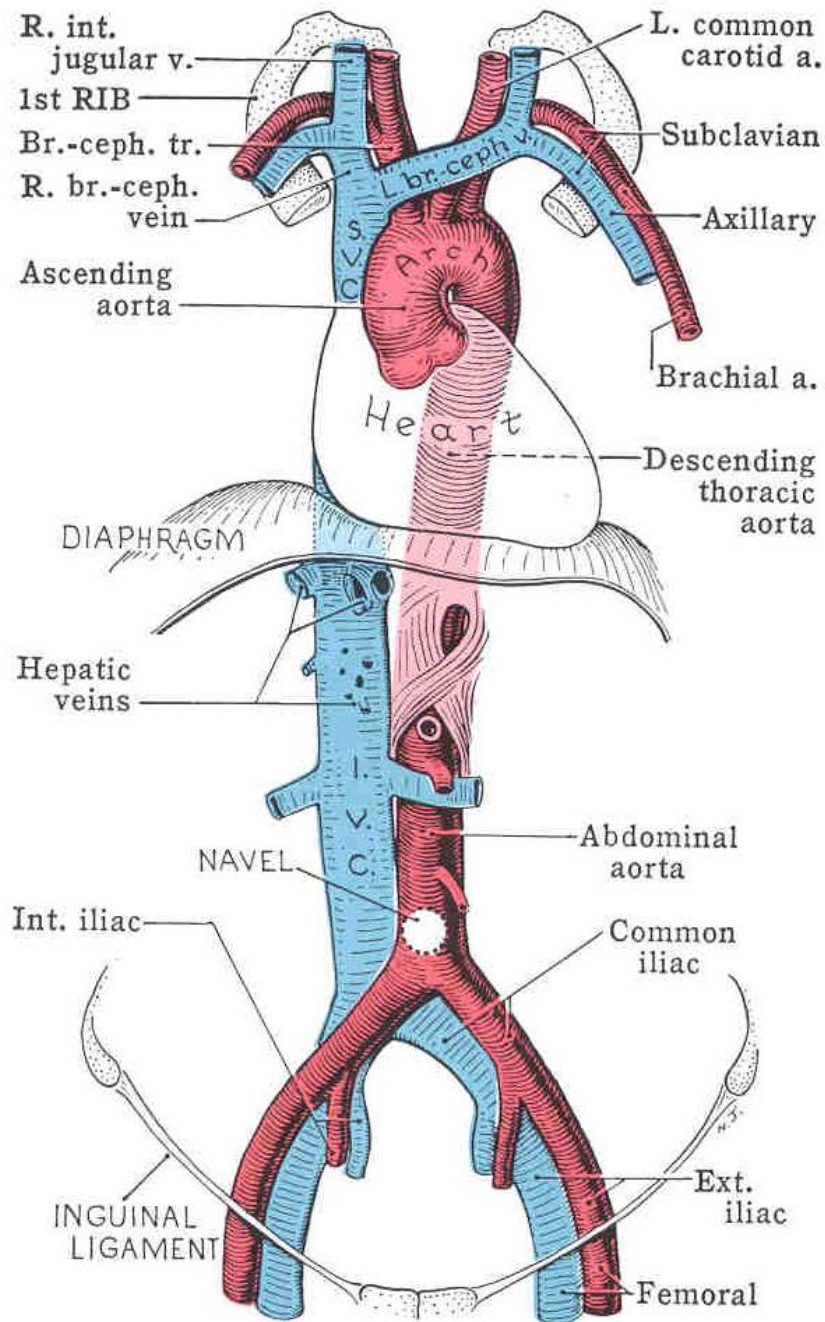


Vessels & Nerves of the Digestive Tract

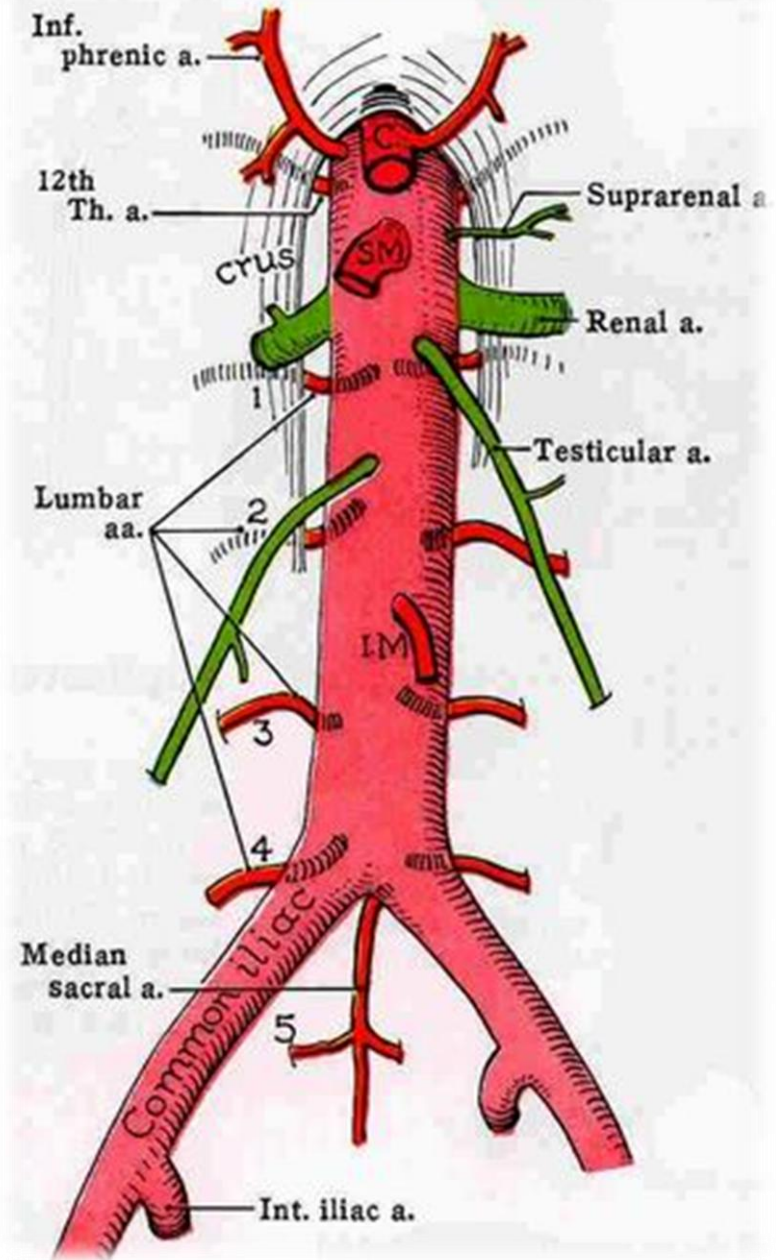
ProfDrMTY







T12, L1, L3



Abdominal Aorta

Posterior branches

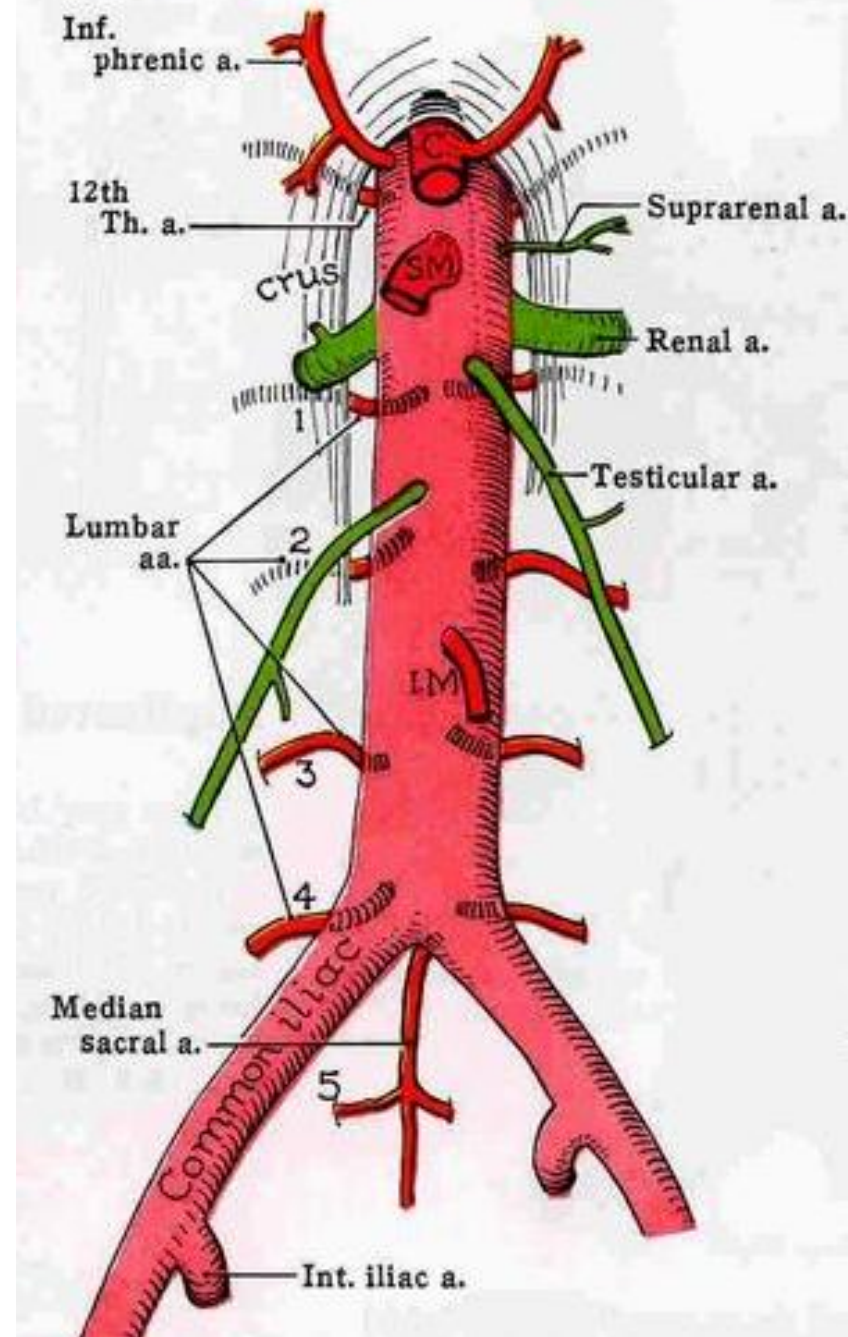
1. Lumbar aa
2. Median sacral a

Lateral branches

1. Inf phrenic a
2. Middle suprarenal a
3. Renal a
4. Testicular a

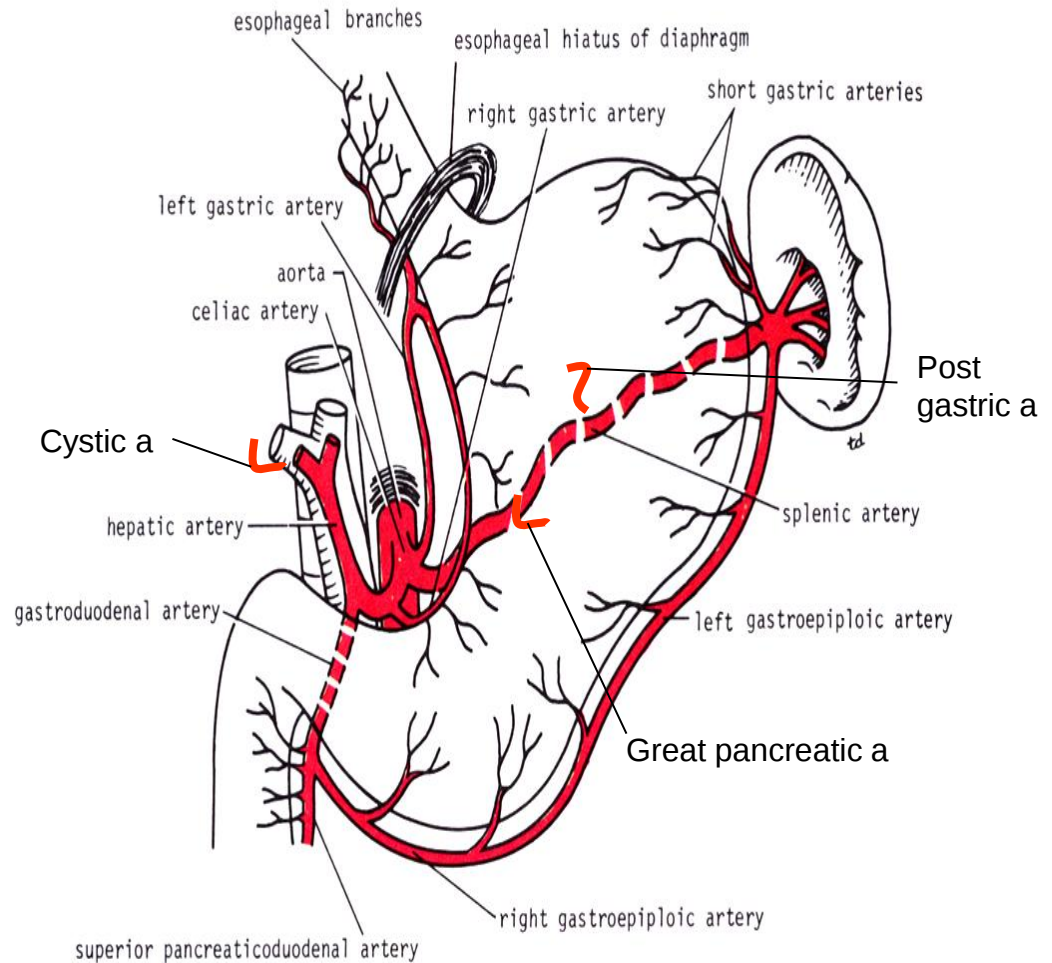
Anterior branches

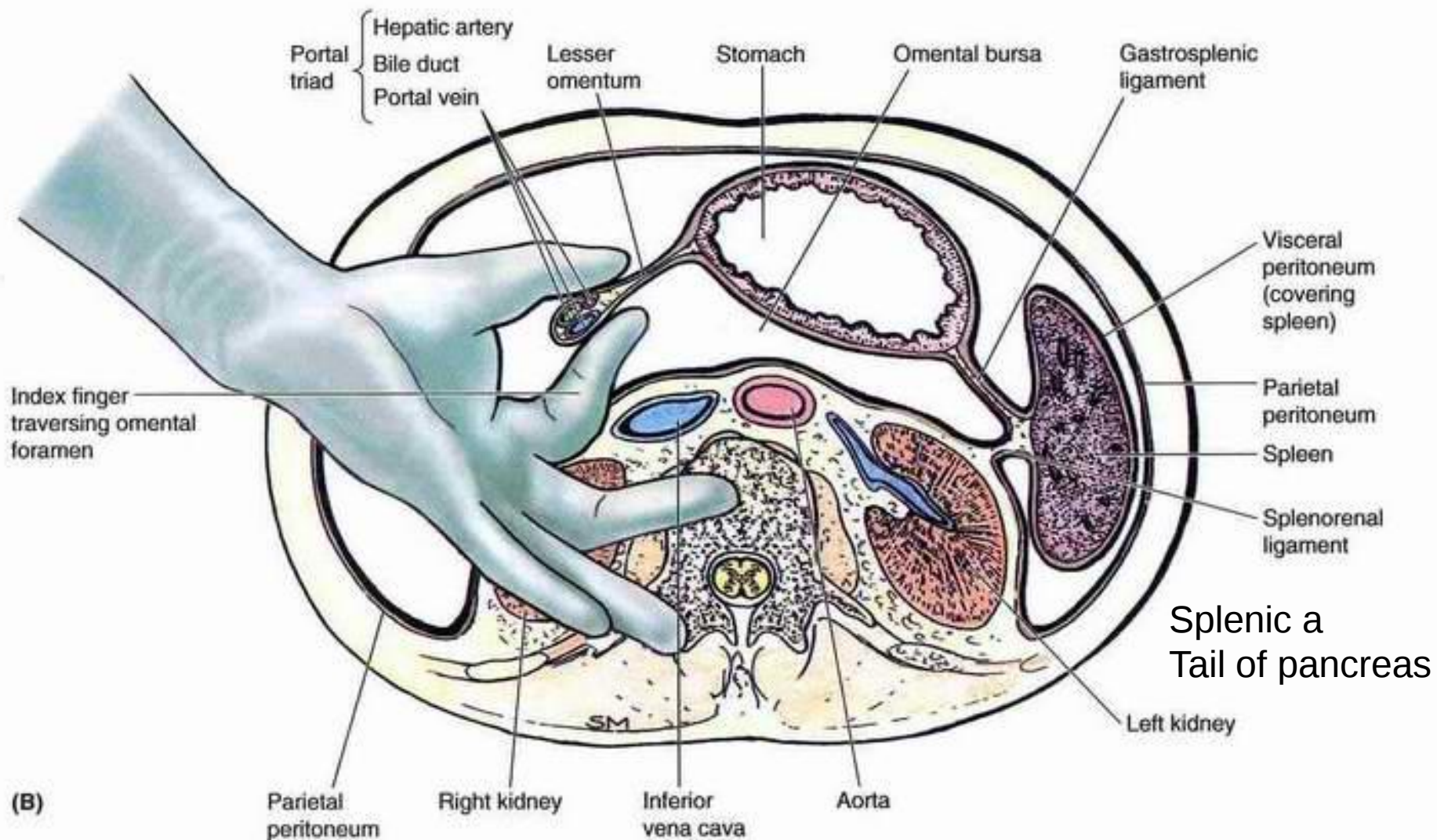
1. Coeliac trunk
2. Sup mesenteric a
3. Inf mesenteric a



Coeliac trunk

Artery	Branches
left gastric artery	esophageal branch, stomach branch
common hepatic artery	proper hepatic artery, right gastric artery, gastroduodenal artery
splenic artery	dorsal pancreatic artery, short gastric arteries, left gastro-omental artery, greater pancreatic artery

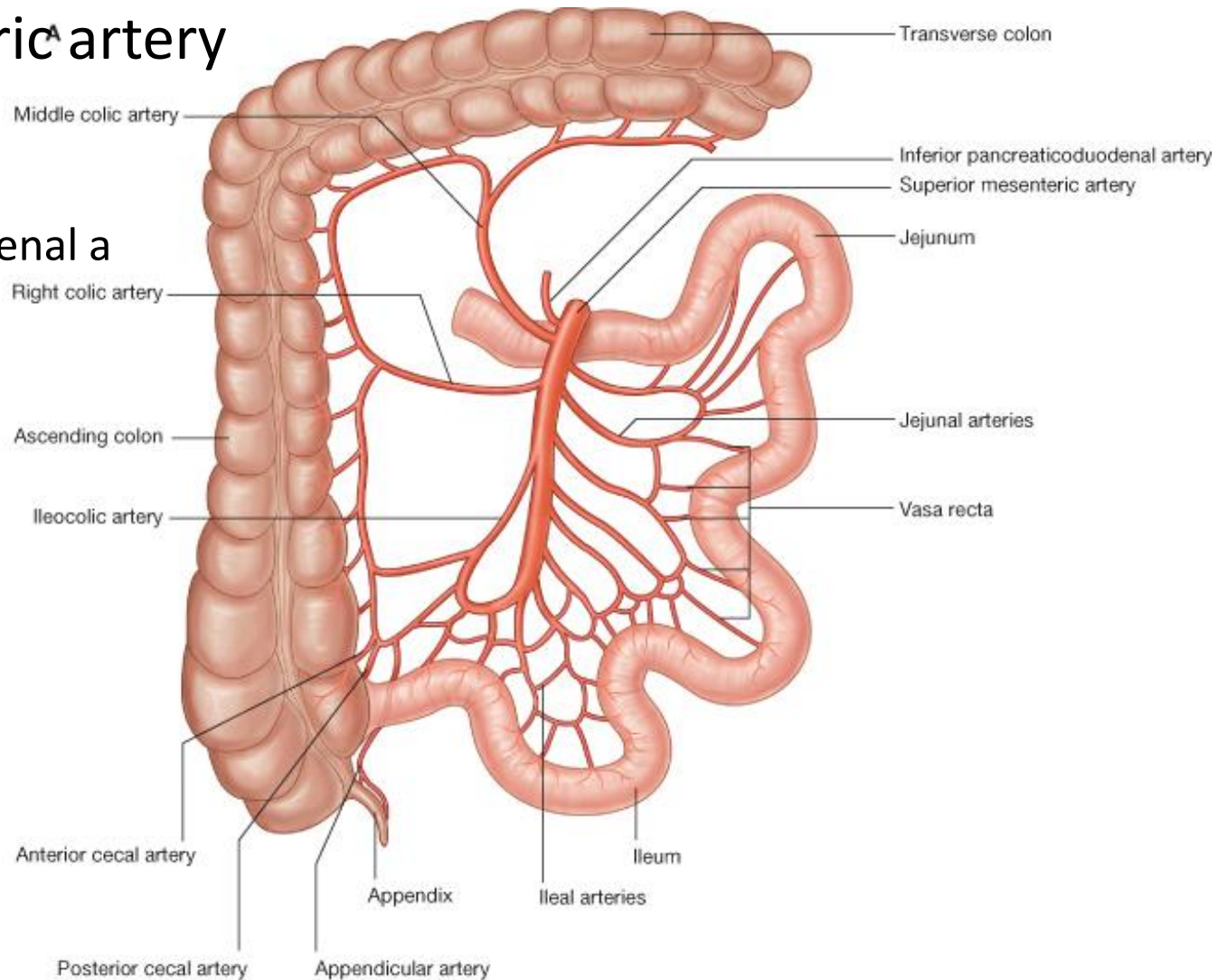


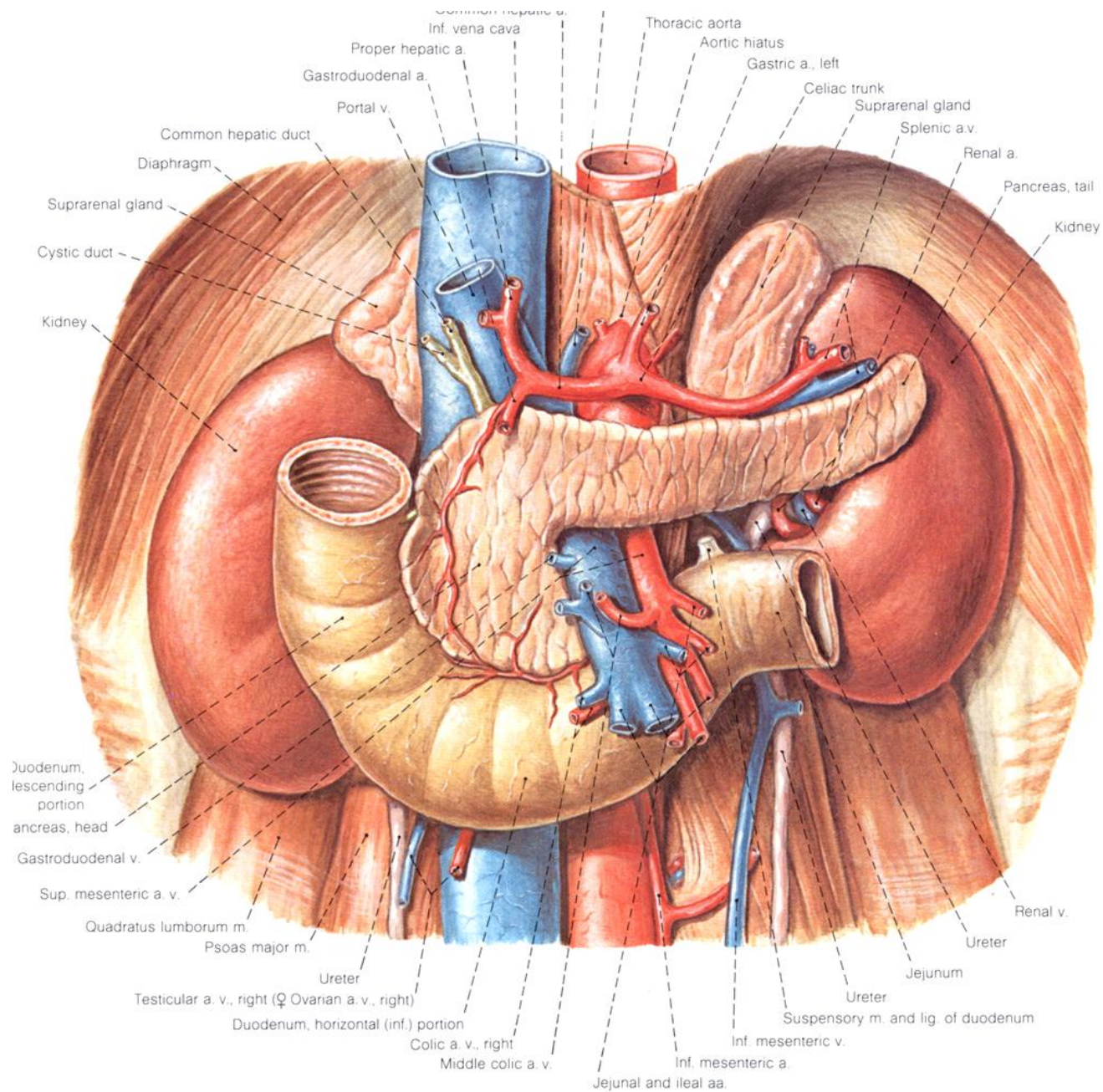


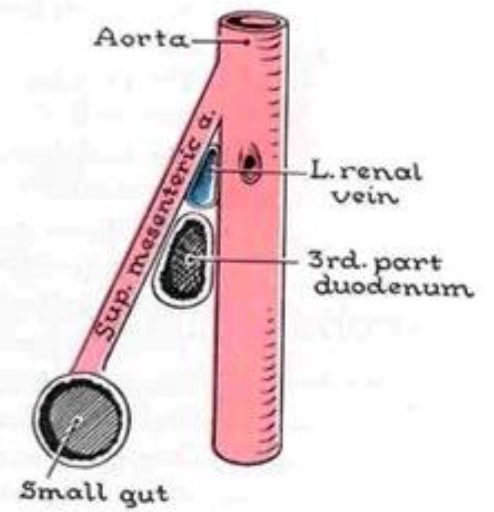
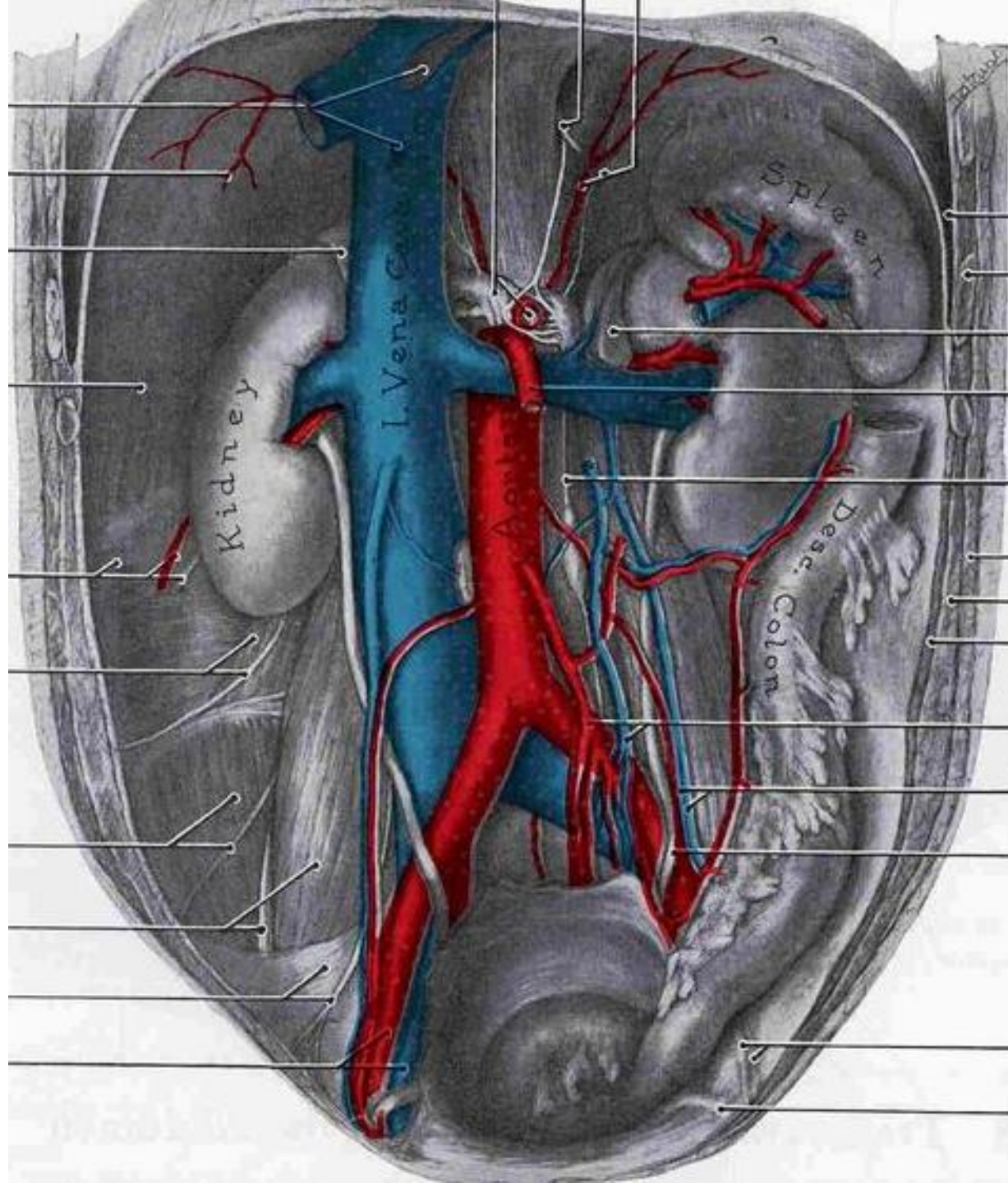
(B)

Sup mesenteric artery

- Inf pancreaticoduodenal a
- Middle colic a
- Right colic a
- Jejunal & ileal aa
- Ileo-colic a
 - Ileal a
 - Colic a
 - Ant caecal a
 - Post caecal a
 - Appendicular a

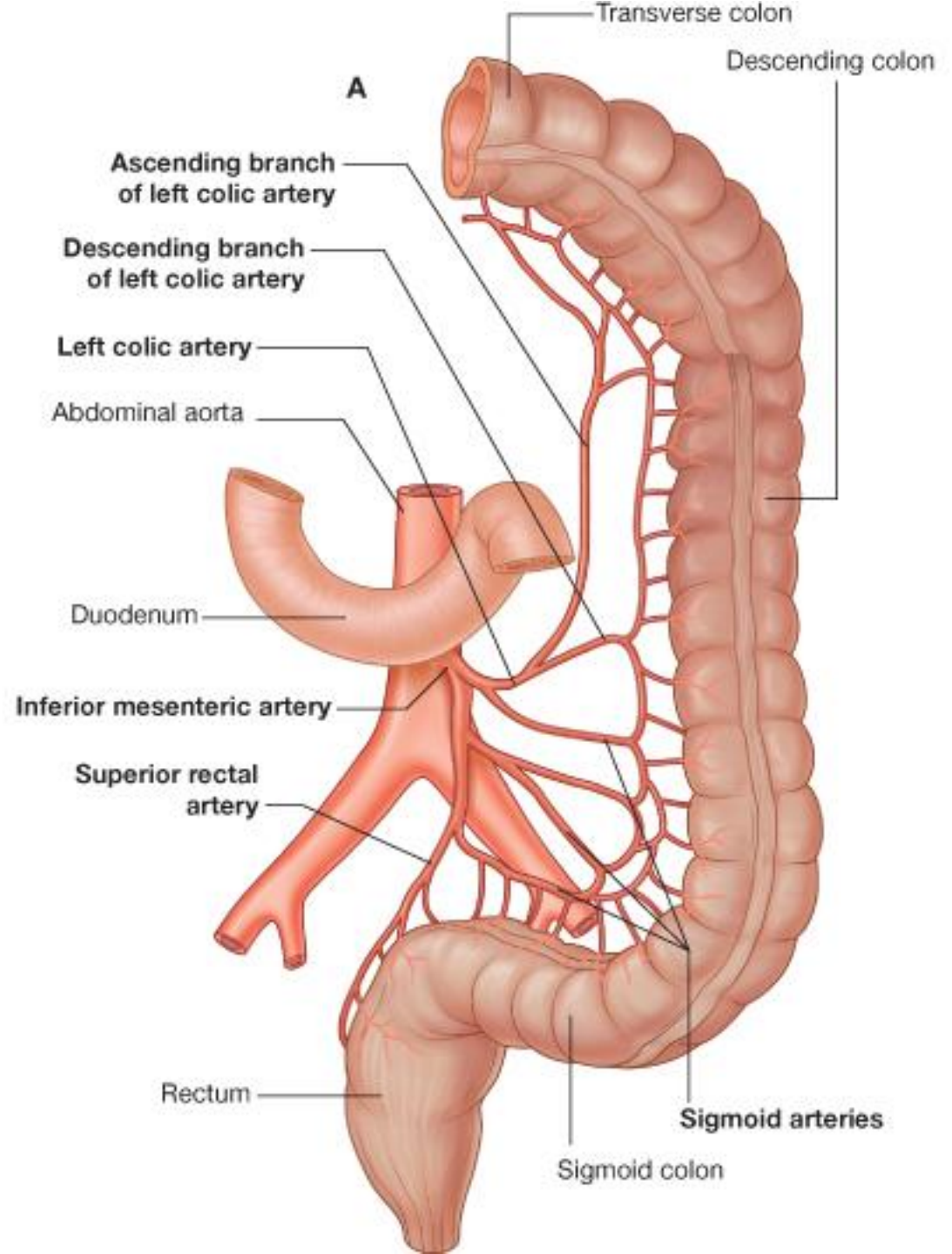


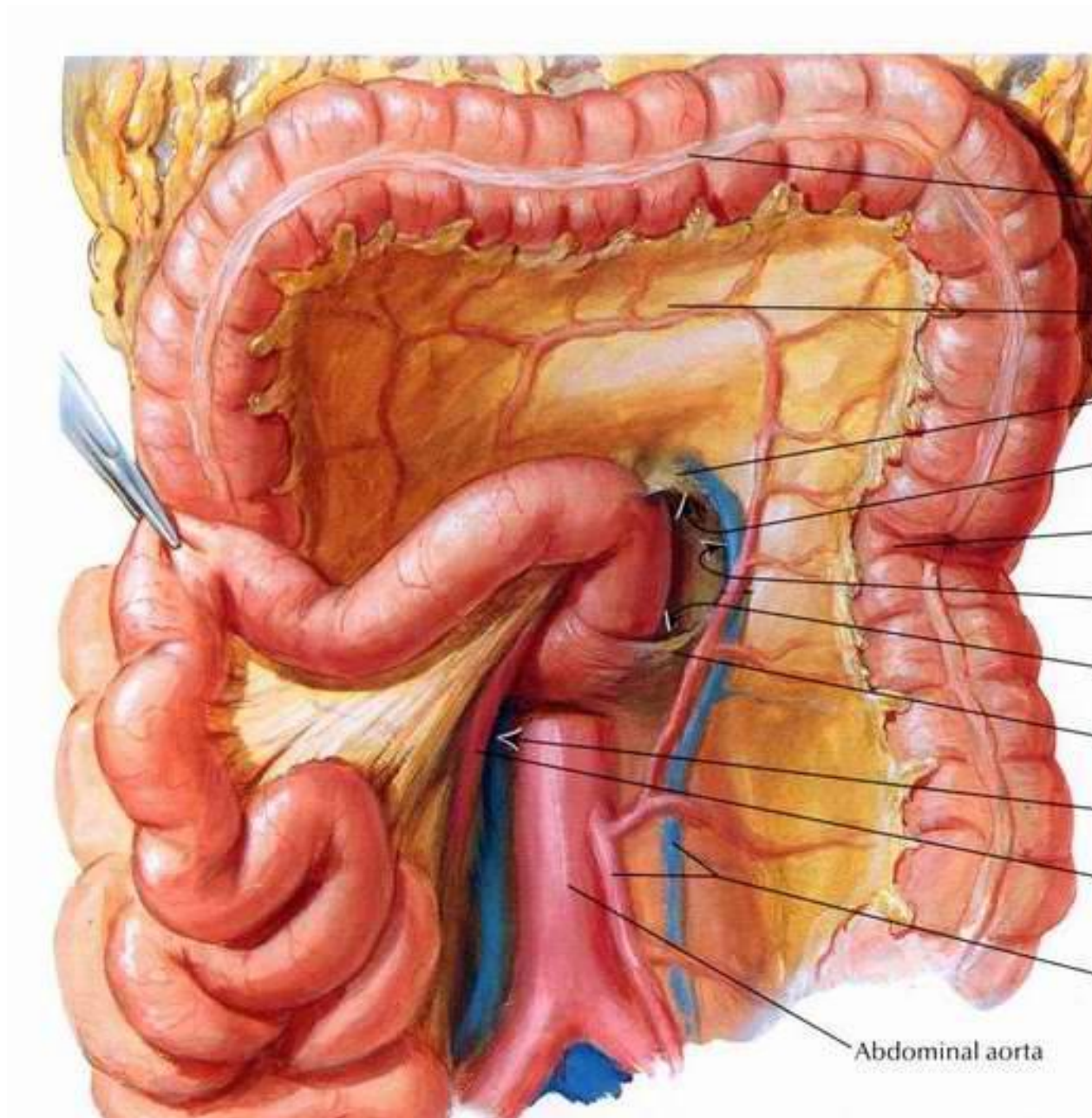




Inf mesenteric

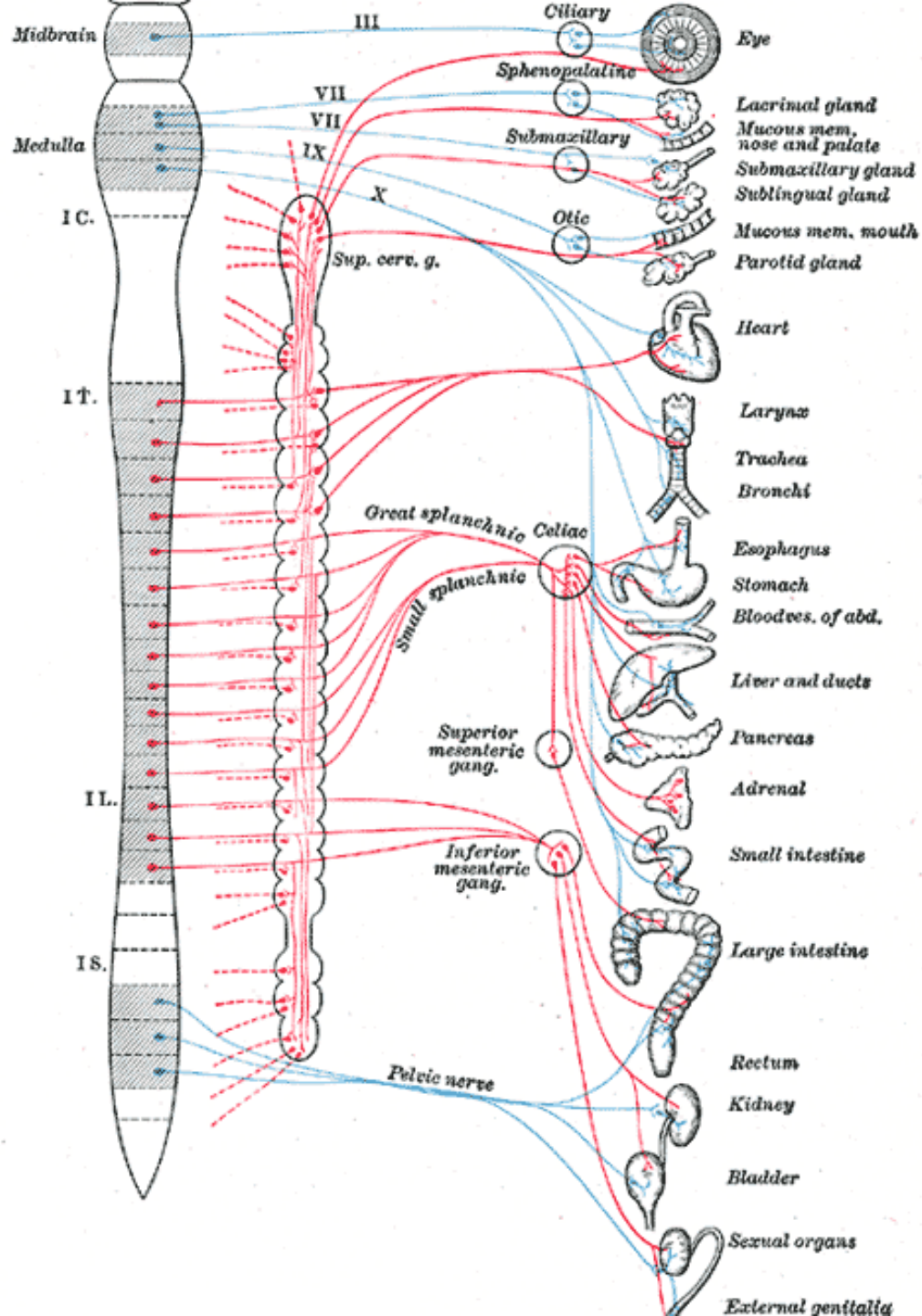
- Left colic a
- Sigmoid aa
- Superior rectal a

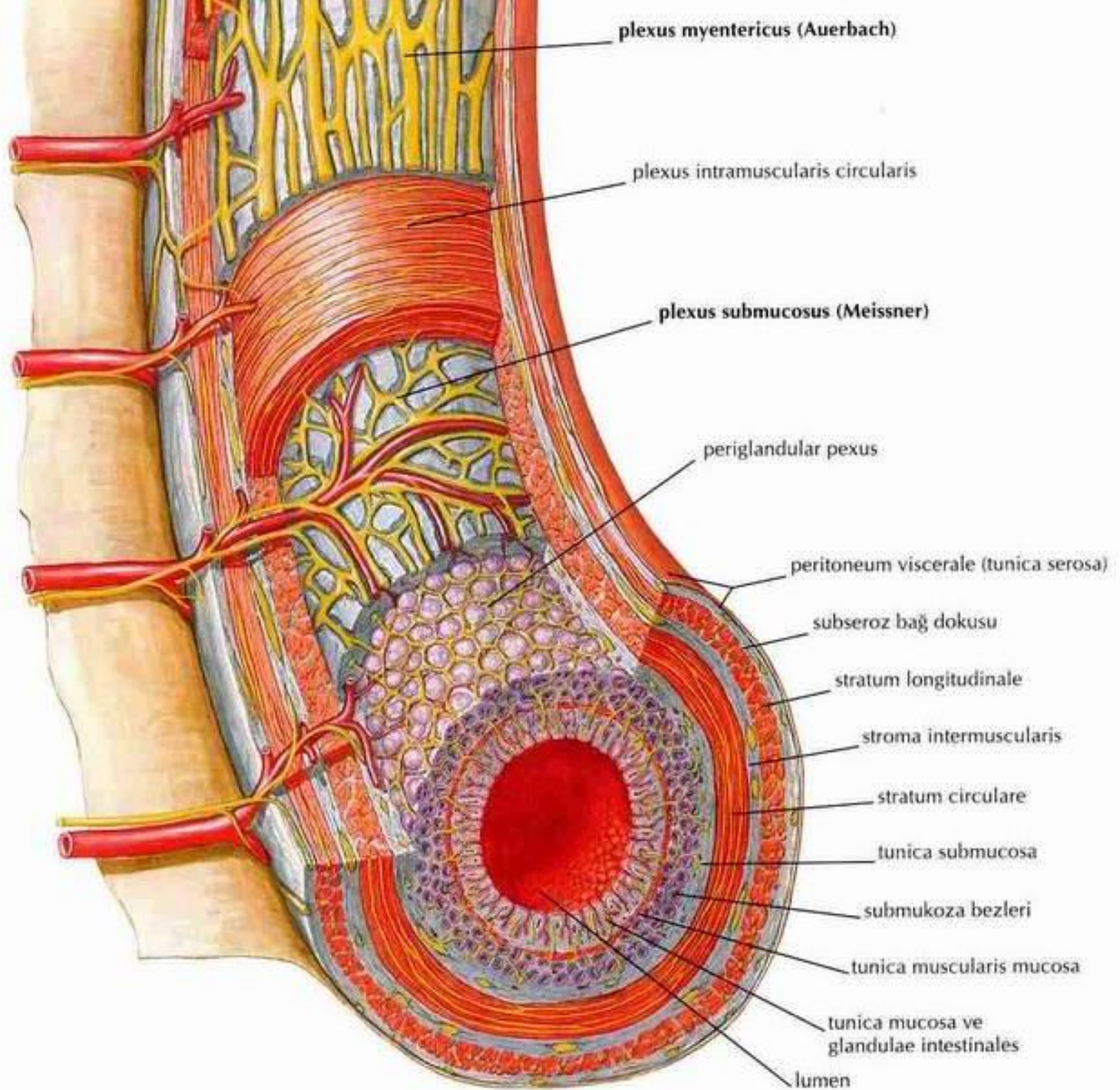




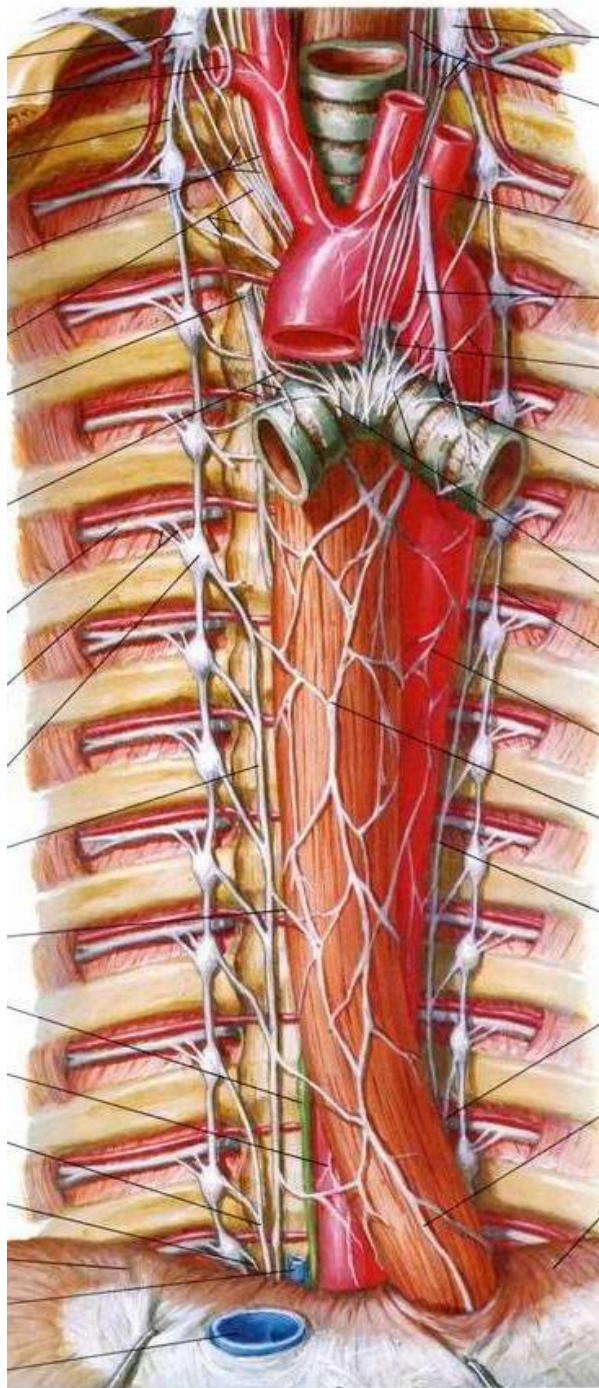
Vessels and Nerves of the Abdominal Organs

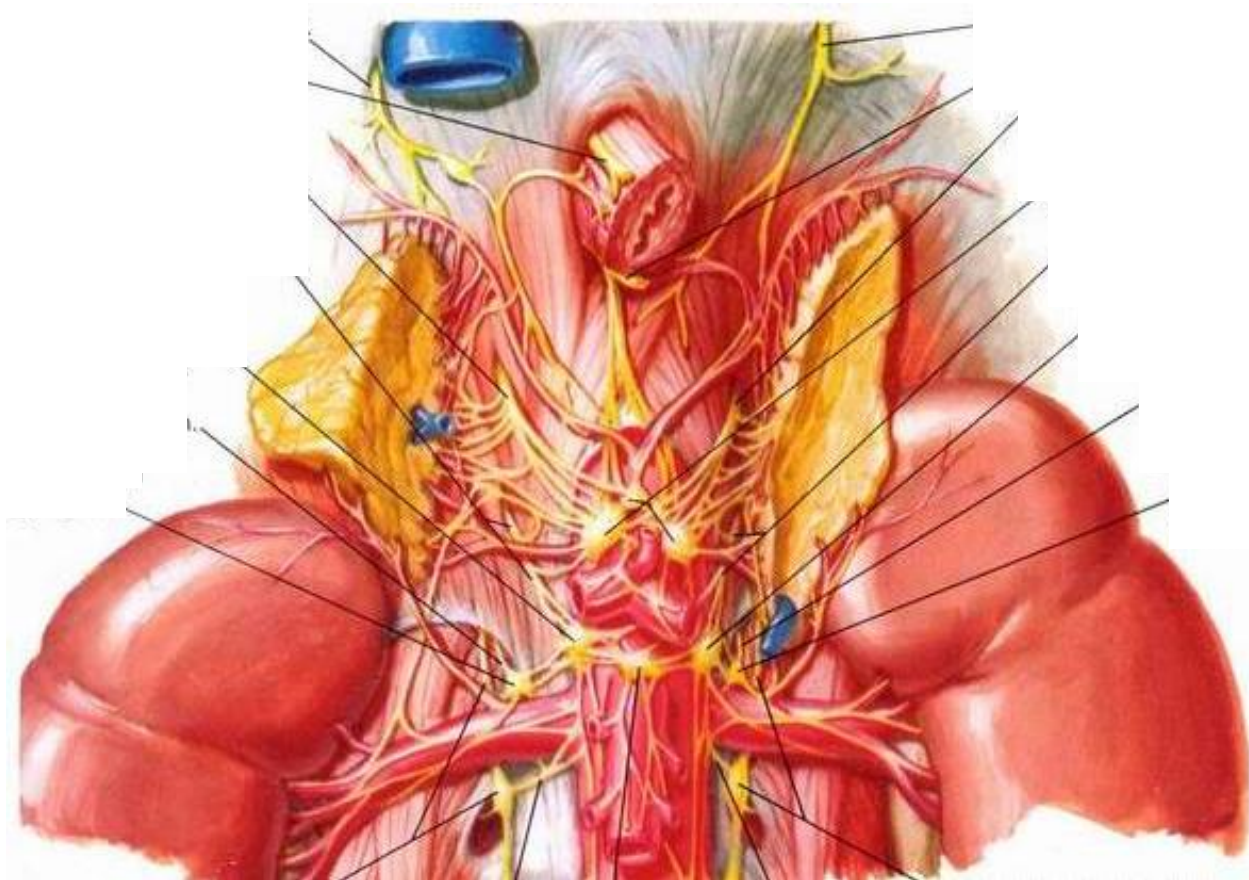
Foregut	Midgut	Hindgut
Oesophagus Stomach Duodeonum Liver Pancreas	Jejunum Ileum Proximal transverse colon	Distal transverse colon Colon descendens Colon sigmoideum Rectum
Coeliac trunk (T-12)	Superior mesenteric a (L-1)	Inferior mesenteric a (L-3)
Greater splanchnic nerves T 5-9 (symp.)	Lesser splanchnic nerves T 10-11	Least & Lumbar splanchnic nerves T12-L3
Vagus		Nn erigentes S 2-4 (parasym.)





Autonomic Nerves in Thorax



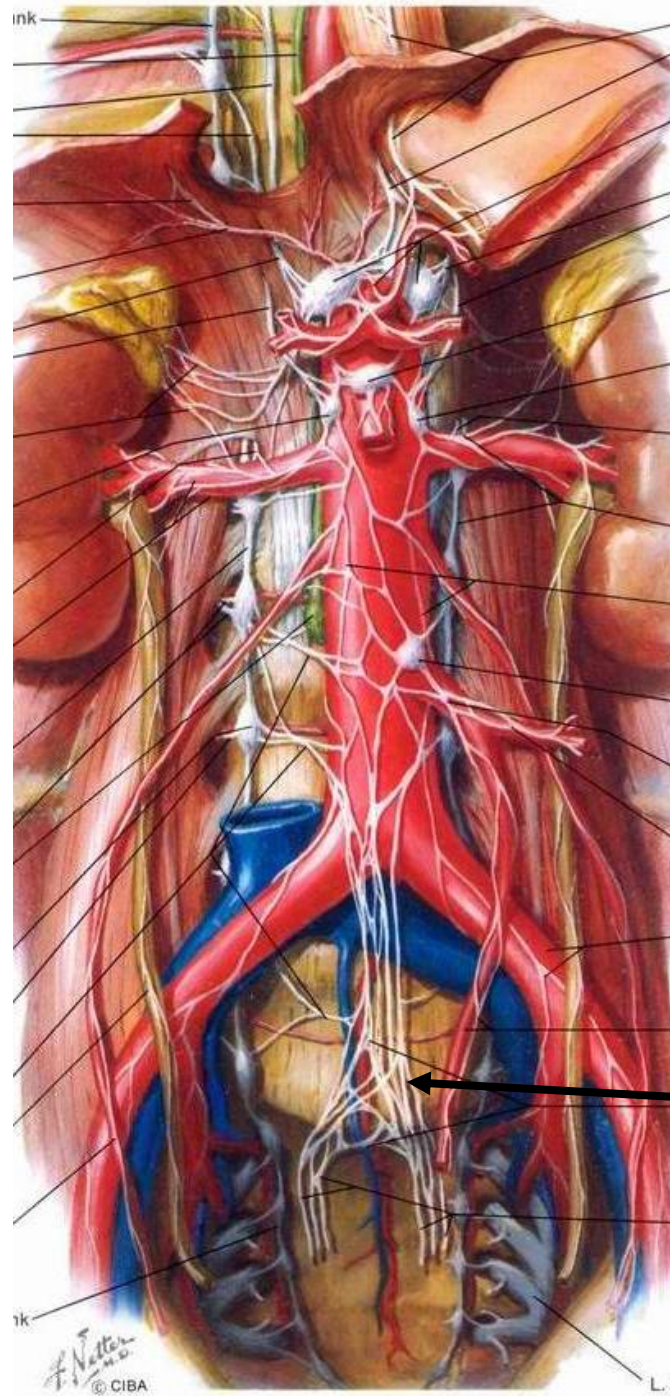


Coeliac plexus

- Thoracal splanchnic nn
- Vagus n
- Phrenic n

Aorticoabdominal
Intermesenteric
Phrenic
Gastric
Hepatic
Splenic
Sup mesenteric
Inf mesenteric
Renal
Suprarenal
Ovarian

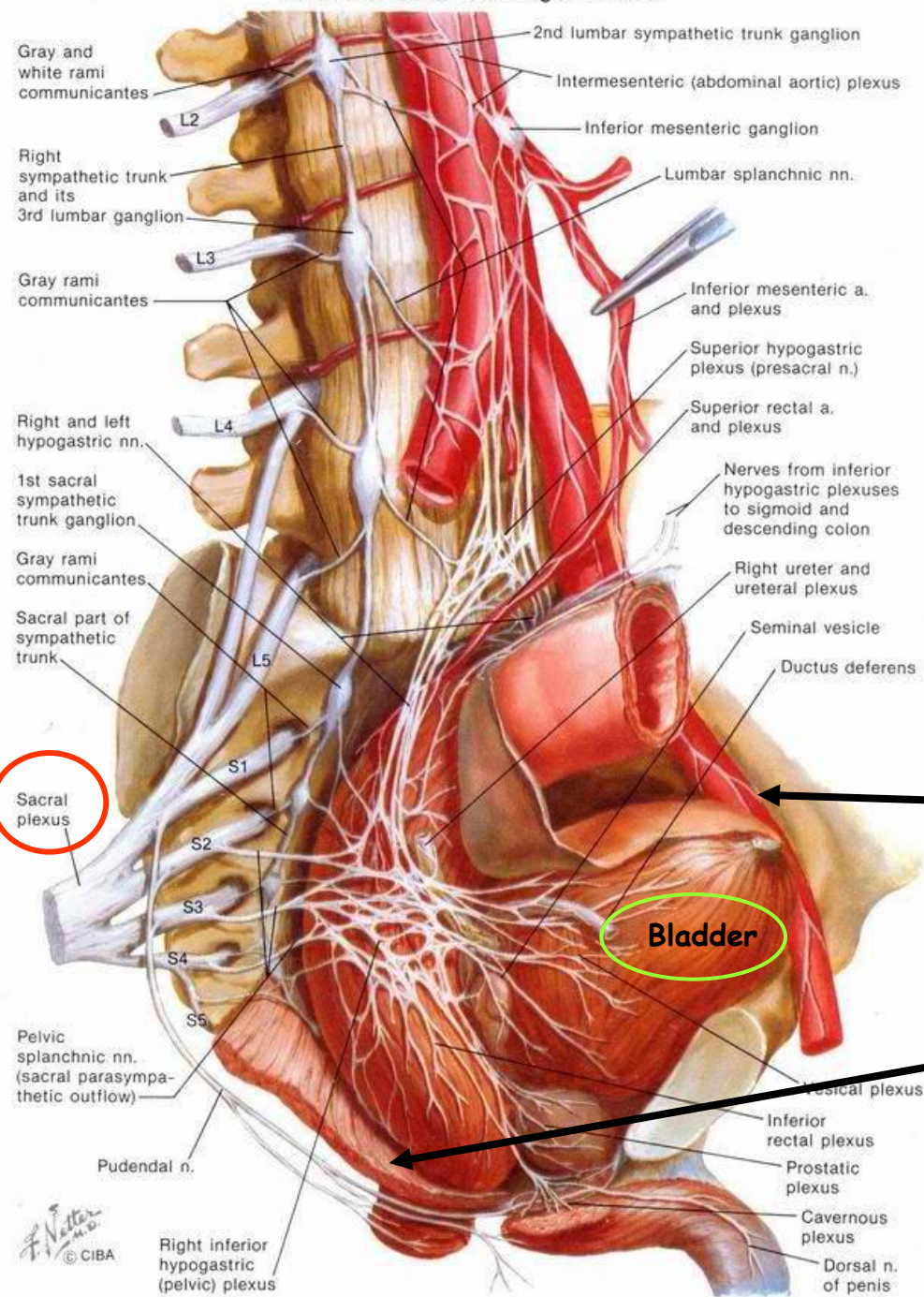
Autonomic Nerves and Ganglia in Abdomen



Sup Hypogastic Plexus

- Lumbal splanchnic nn
 - Pelvic splanchnic nn
(erigentes)
- Ovarian
Uterine
Common iliac

Autonomic Nerves and Ganglia in Pelvis



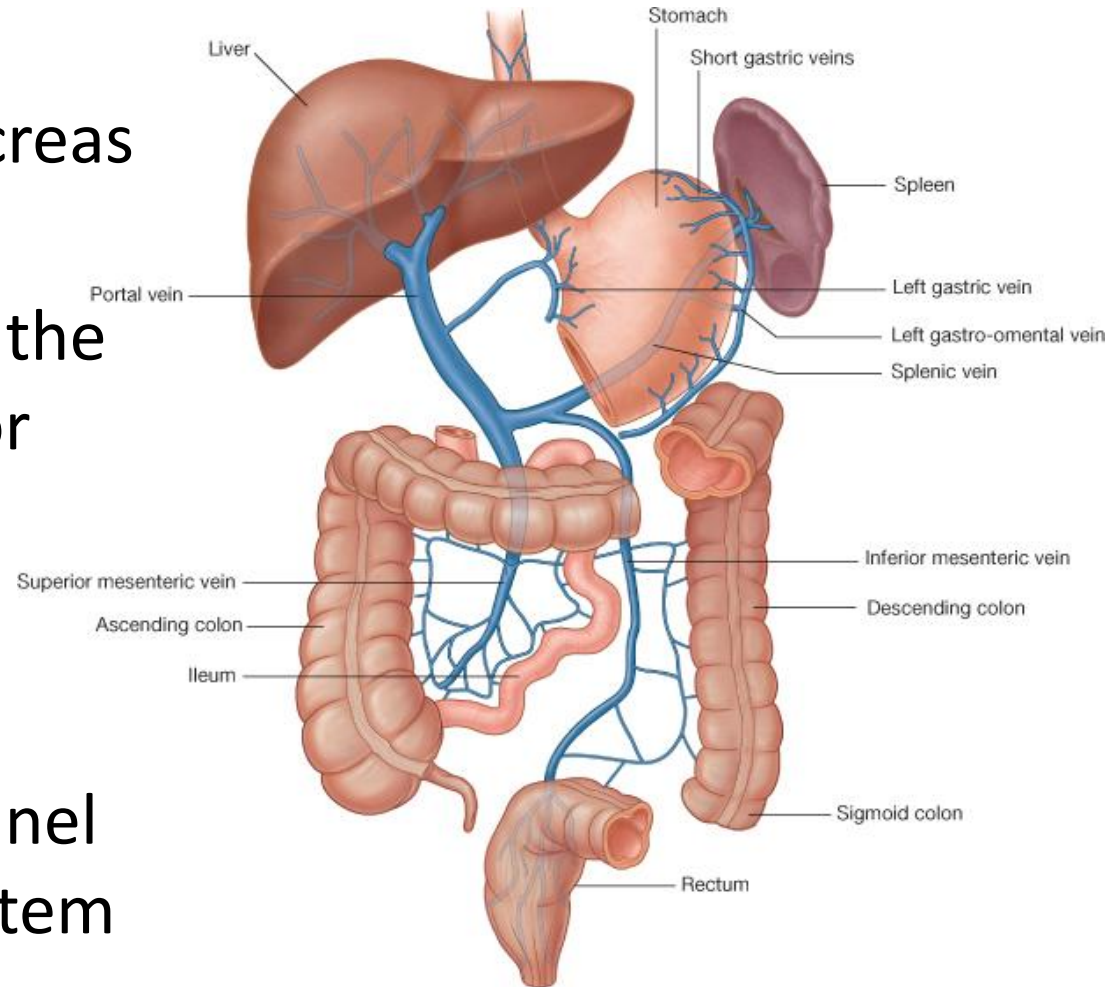
- A iliaca interna & branches
- M levator ani
- M coccygeus
- M obturator internus

Inf Hypogastric Plexus

- Hypogastric nn
 - Pelvic splanchnic nerves (erigentes)
- | |
|---------------|
| Middle rectal |
| Vesical |
| Prostatic |
| Utero-vaginal |

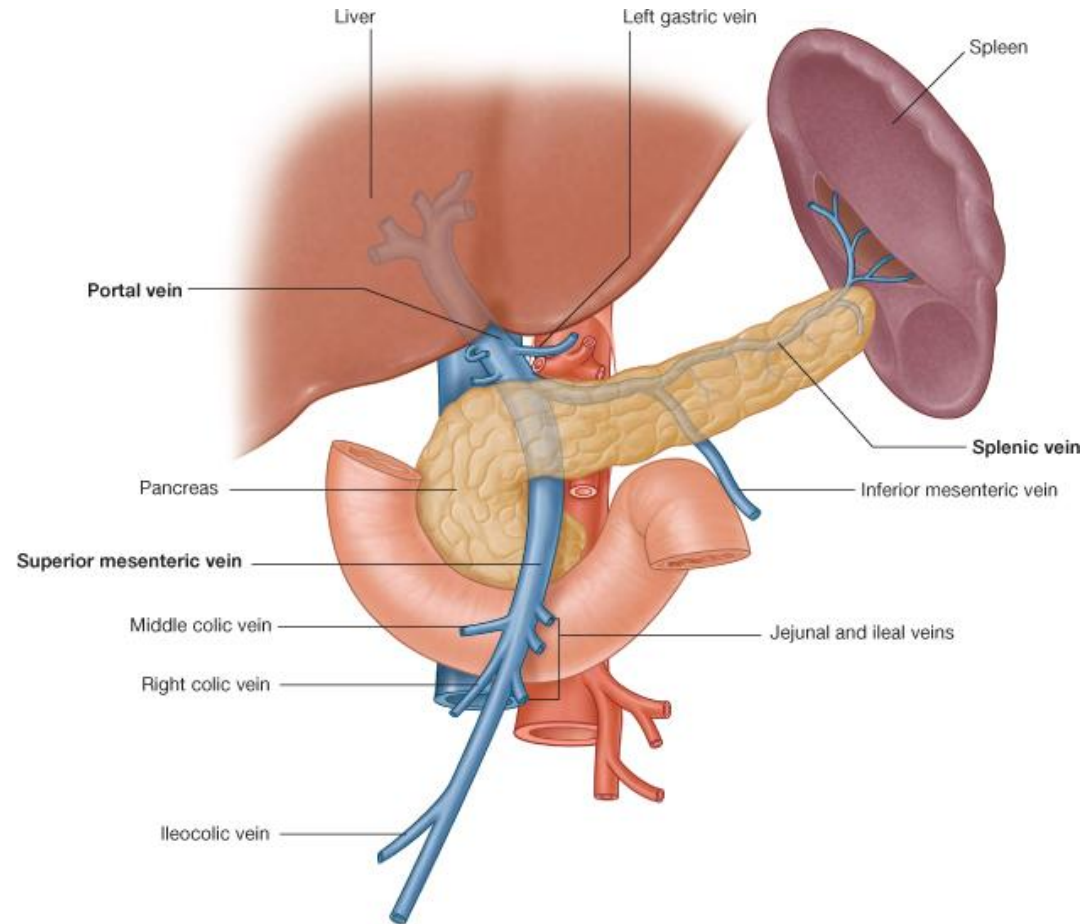
The Portal Vein

- Behind the neck of pancreas (L2 level)
- Formed by the union of the splenic vein and superior mesenteric vein
- Inferior mesenteric vein drains into splenic vein
- Serves as the main channel of the portal venous system



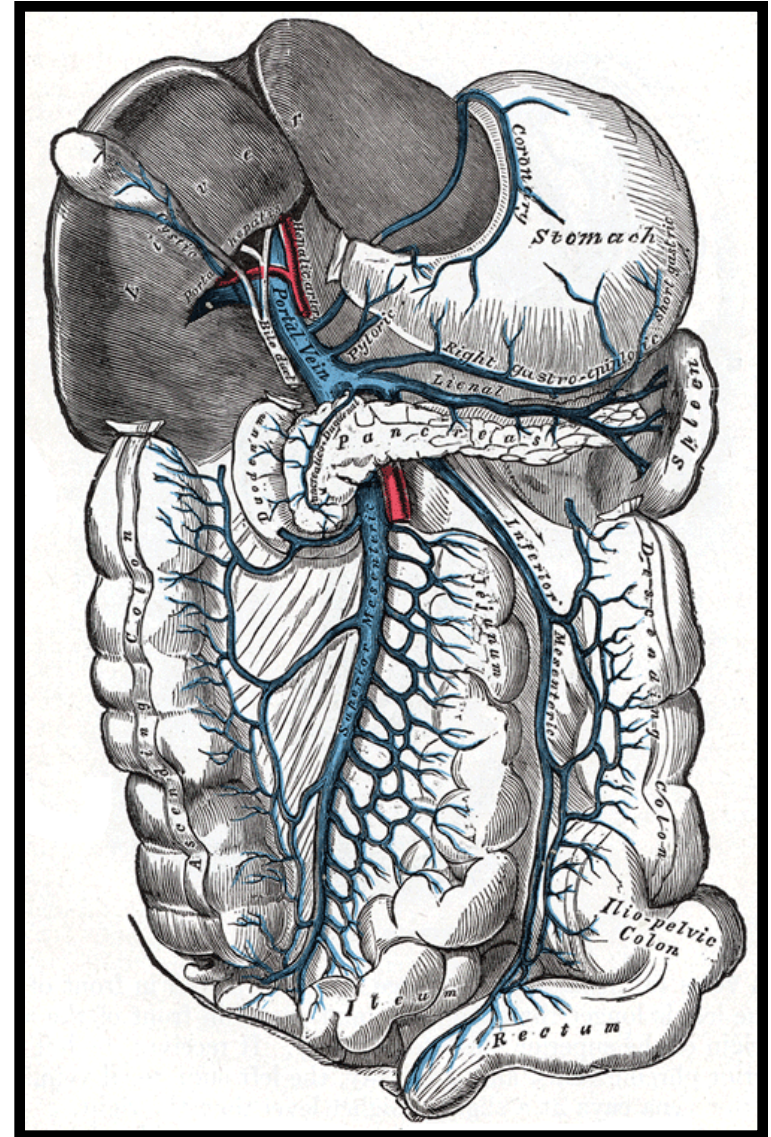
The Portal Vein

- About 8 cm long
- Inside the hepatoduodenal ligament



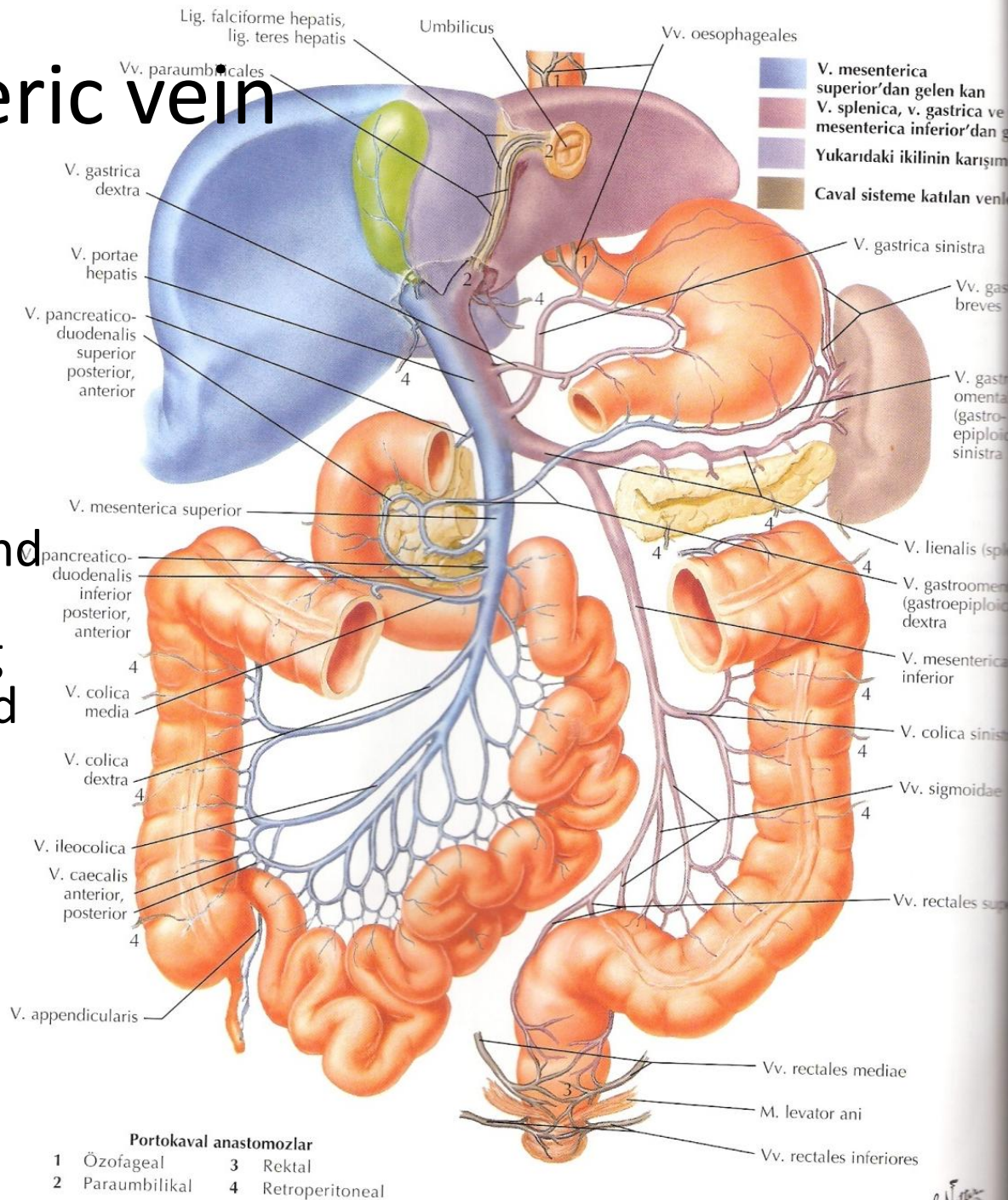
The Portal System

- A system in which vein drains into vein
- Receives nutrient rich and oxygen low blood from all gastrointestinal system till the lower end of large intestine
- Discharges blood into sinusoids in the liver, and after central veins of liver



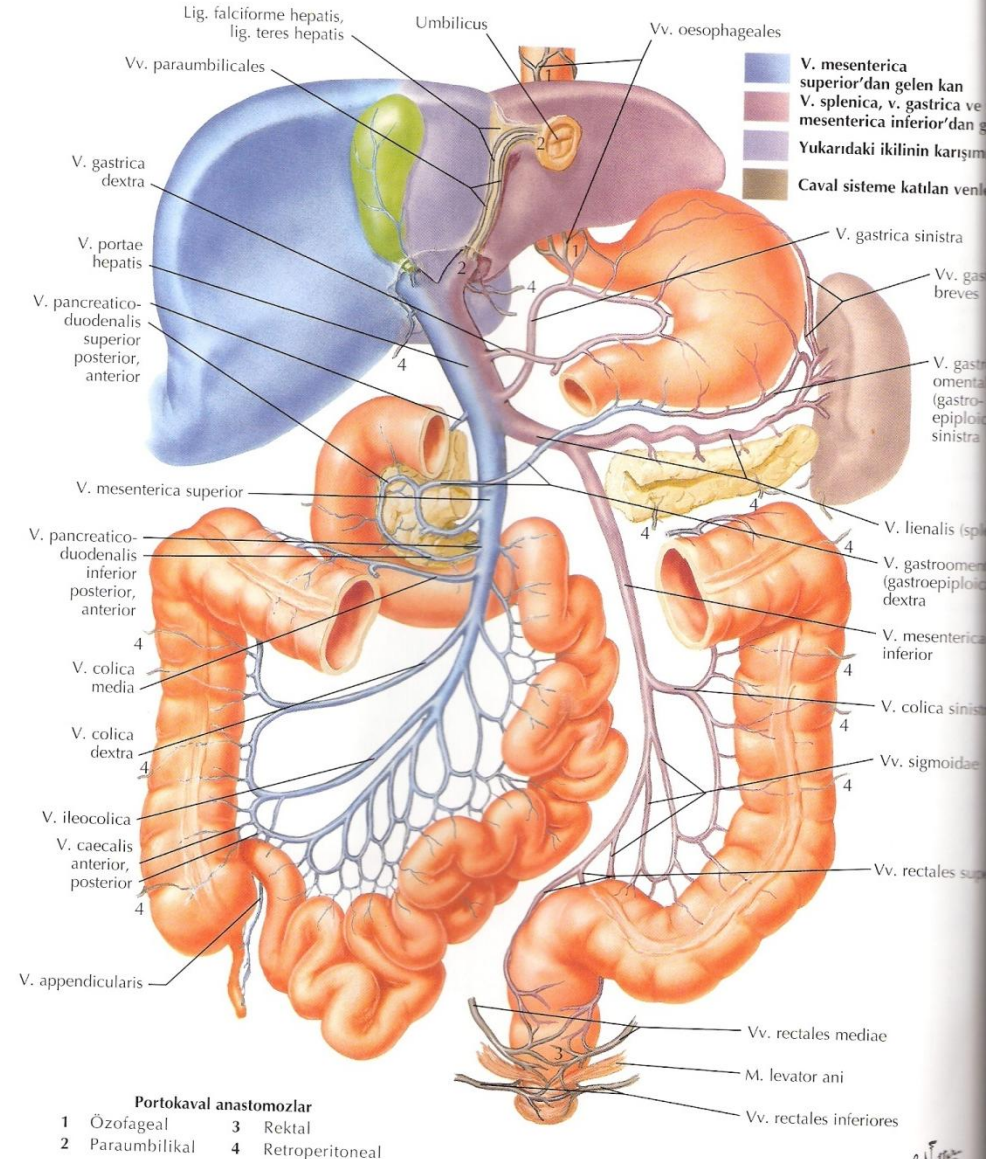
Inferior mesenteric vein

- collects blood from capillaries along the lower portion of large intestine
- Include left colic vein and the superior rectal vein which drain descending colon, sigmoid colon and rectum



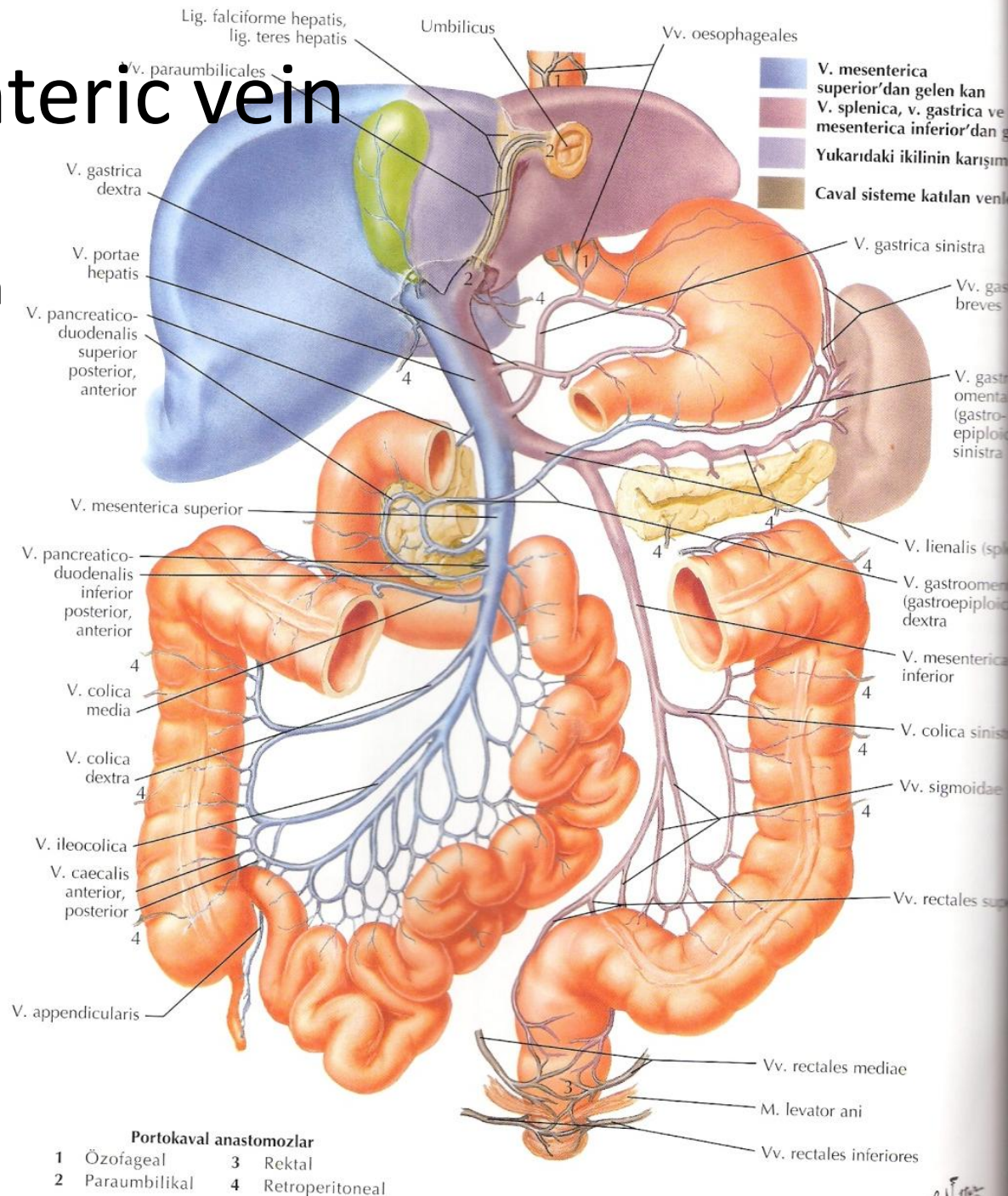
Splenic vein

- inferior mesenteric vein
- veins from spleen, lateral border of stomach (left gastroepiploic)
- the pancreas (pancreatic)



Superior mesenteric vein

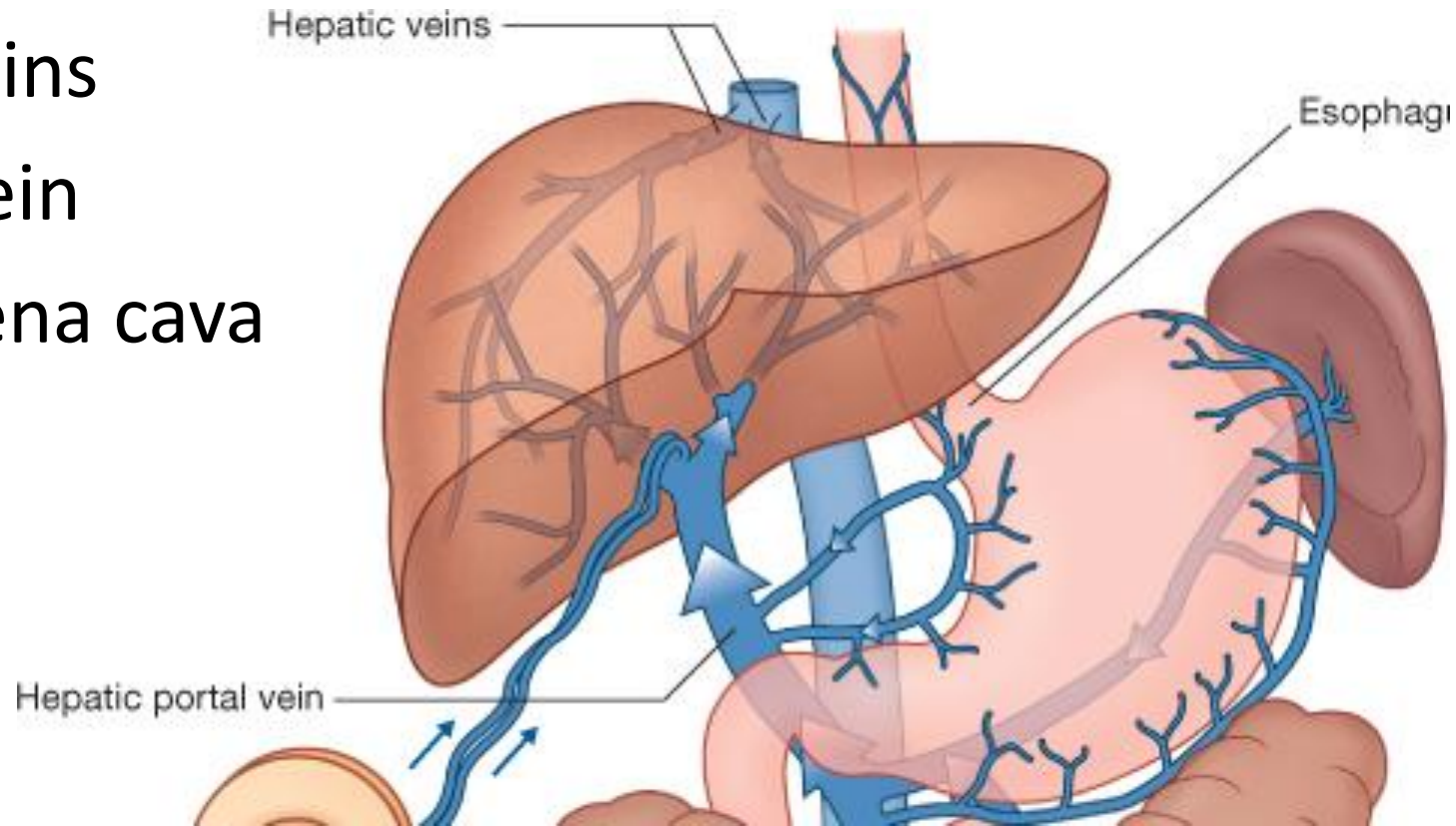
- veins draining stomach
- the small intestine
- two-thirds of the large intestine



Portocaval anastomosis

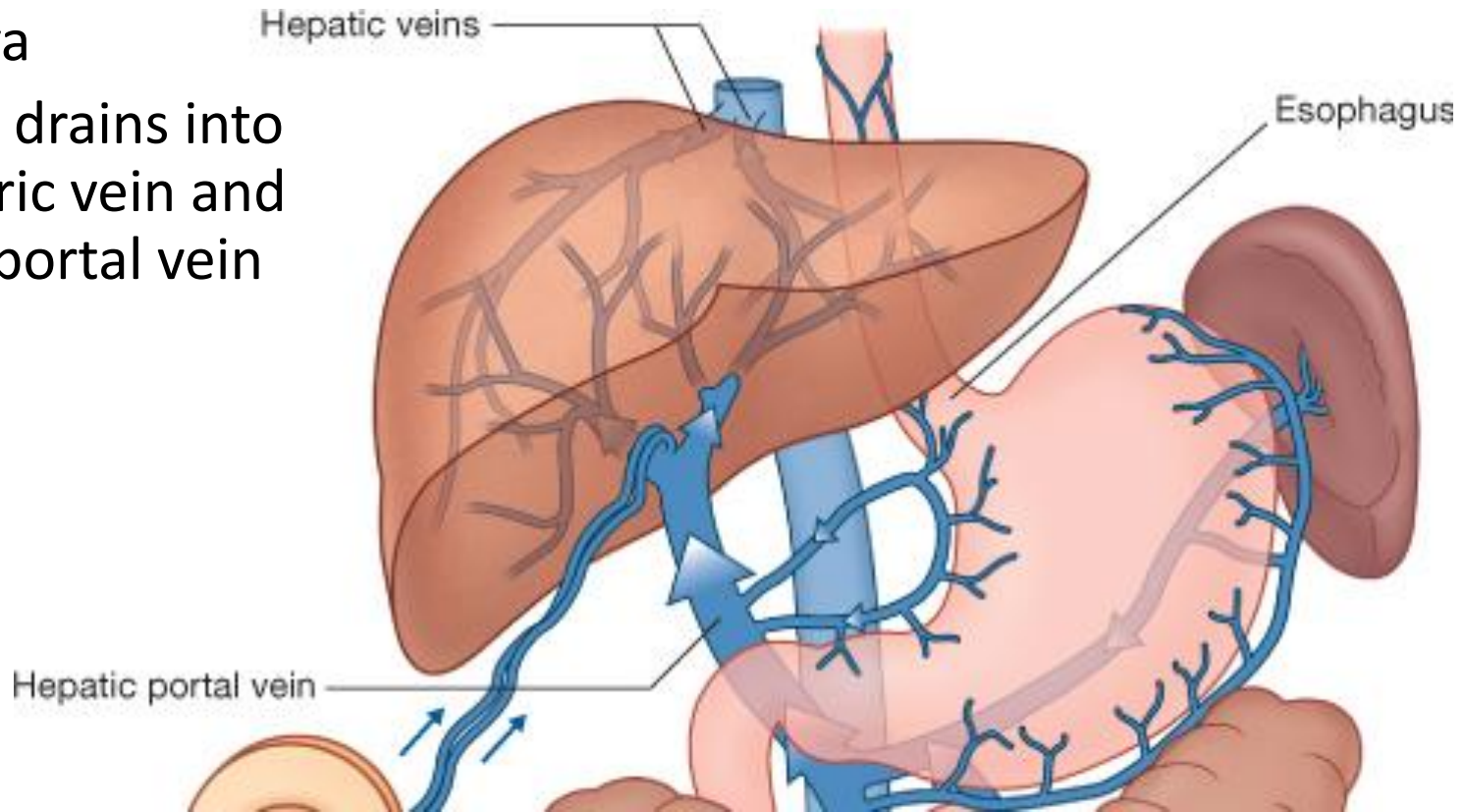
Liver

- Portal vein
- Interlobular veins
- Central veins
- Hepatic vein
- Inferior vena cava



Portocaval anastomosis Around oesophagus

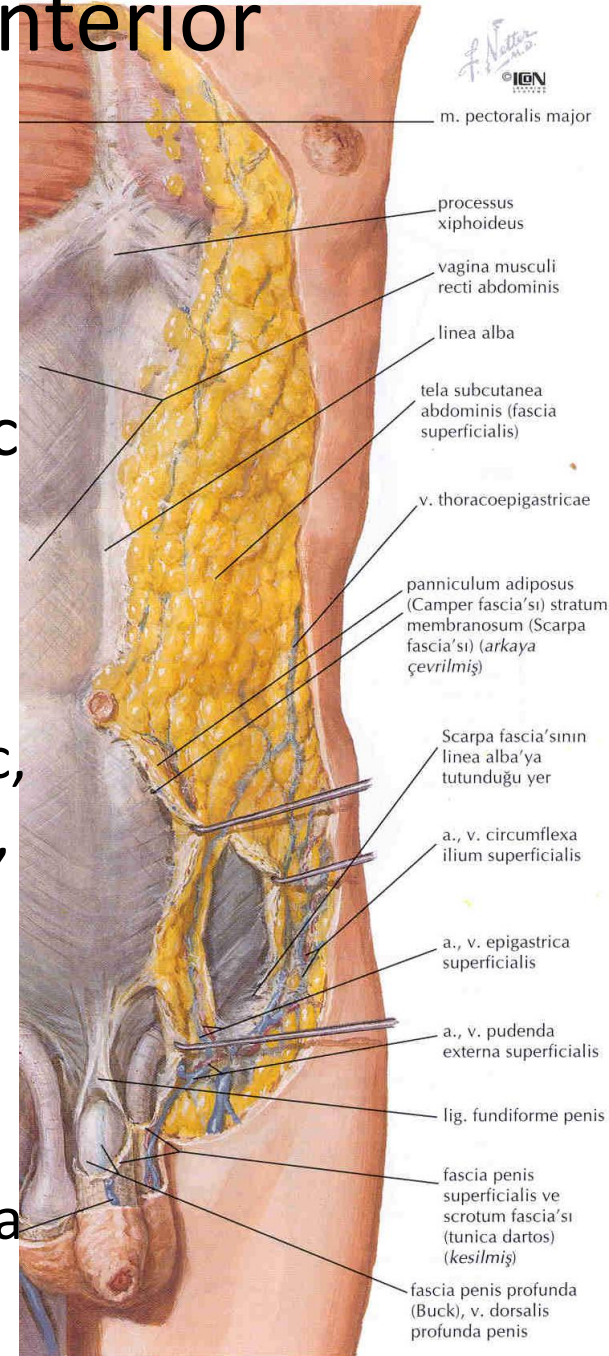
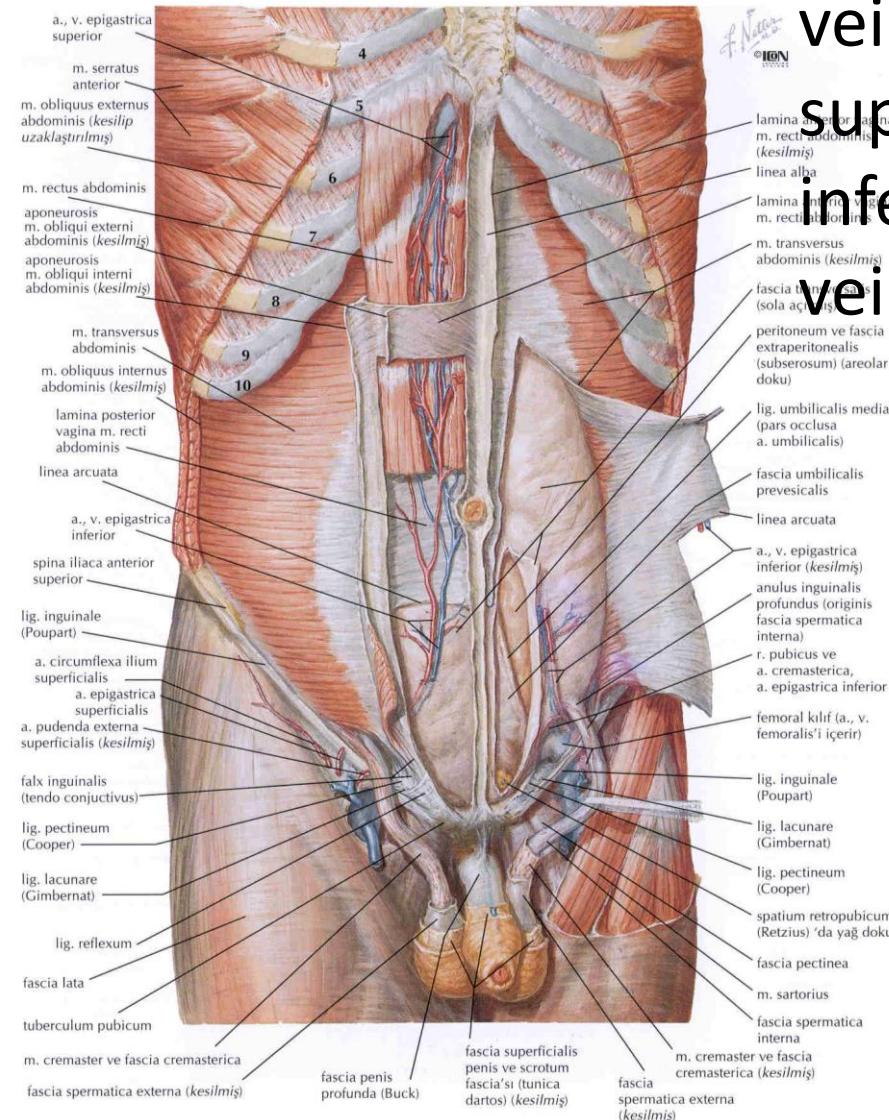
- Superior part drains into azygos & hemiazygos vein and eventually to the superior cava
- Inferior part drains into the left gastric vein and then to the portal vein



Portocaval anastomosis around anterior abdominal wall

Paraumbilical veins drains superior & inferior epigastric veins

Sup.epigastric drains into internal thoracic, brachiocephalic, superior cava
Inf.epigastric drains into external iliac, inferior cava



Portocaval Anastomosis

Posterior Abdominal Wall

- between the portal tributaries in the mesentery and mesocolon &
- retroperitoneal veins communicating with the renal, lumbar and phrenic veins;

